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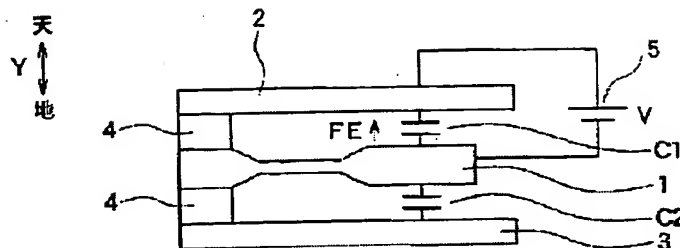
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TITLE : CAPACITANCE-TYPE ACCELERATION
SENSOR



ABSTRACT : PROBLEM TO BE SOLVED: To provide a capacitance-type acceleration sensor whose detection accuracy is enhanced by suppressing the offset of a displacement generated in a movable electrode.

SOLUTION: The capacitance-type acceleration sensor is provided with the movable electrode 1 which can be displaced in the top and bottom direction Y and a first fixed electrode 2 and a second fixed electrode 3 which are arranged so as to face the movable electrode 1 on mutually opposite sides to sandwiching the movable electrode 1 in the direction Y. An applied acceleration is sensed on the basis of a change in a first capacitance C1 and a second capacitance C2 due to the displacement in the direction of the movable electrode 1 when the acceleration is applied. A DC voltage V is applied across the movable electrode 1 and the first fixed electrode 2, an electrostatic attractive force FE which is equal to a gravitational acceleration is applied, and the offset portion of the displacement in the direction Y of the movable electrode 1 can be canceled.

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